

ViconNet Version 6 Video Management System



- Proven solution with thousands of successful installations worldwide
- Open Platform Video Management System that works on a wide range of computer products
- Available pre-configured on factory-certified computers
- Seamless integration of analog and network cameras
- Supports Onvif-based cameras
- Extensive integration with third-party technologies such as access control and video analytics
- Unlimited cameras, servers, & locations (ViconNet PEAK)
- Distributed architecture with failover design
- Web client and PC based application interface options
- No complicated IP camera registration based on MAC ID
- Independent live/recording frame rates and resolutions

ViconNet® 6, Vicon's fully scalable, feature-rich VMS solution, delivers enterprise-level performance along the ability to customize the system and compatibility with a wide range of commercial off-the-shelf (COTS) network video and computer hardware. Distributed architecture allows ViconNet to support an unlimited number of cameras, locations and users with no single point of failure. The result is a system optimized for your needs, with your choice of components, that delivers consistent performance and reliability.

Key Features of Version 6

Integrate Web-Based Content

View web pages or any other type of web-based information such as HTML or a PDF documents from within ViconNet's interface. Weather, news or traffic reports and emergency facility operating procedures are just a few examples of content that can be easily accessed.

Web Client

The ViconNet web browser user interface runs on any of the popular web browsers and provides live viewing, playback and PTZ controls. View and control these functions from any PC or laptop connected to the Internet.

Easy Archiving

ViconNet's new Archive Wizard enables you to easily create authenticated archives that save to a desired location, including removable media, for use as forensic evidence. Play the archived video on any PC using the embedded player.

Unique Video Vault

Manage your long-term storage more efficiently by allowing any alarm-tagged video to be saved to a separate database where it cannot be overwritten by the system. This includes video corresponding to motion detection, video loss or other events identified by integrated access control software.

Enhanced Audit Logs and Authorization Rights

Generate immediate reports on alarm history, device status, recording verification, failure notification, events and more. Send authorization settings to other work stations so they do not have to be programmed separately. Create new user groups for authorization and copy settings from other groups to expedite and simplify the process.

Enhanced Macro Functionality

Run applications such as web pages, documents, spreadsheets and executable files from within ViconNet. Create batch files to run multiple applications.

Minimum Workstation Requirements

Hardware:	Intel® Core™ i5 processor, 2-4 GB of RAM and 5 GB of disk space. Display Adapter: 256 MB RAM onboard, min. Workstations are available from Vicon or may be COTS equipment.
Operating System:	Microsoft® Windows® XP Professional 32 or 64-bit; Microsoft Vista 32-bit; Microsoft Windows 7 Professional 32 or 64-bit; Windows 2003 or 2008 Server.

Functions and Features

Compression:	H.264, ViconNet optimized MPEG-4 and JPEG (Normal and Full).
Transmission:	Unicast and multicast.
Displays:	Supports 16 x 9 and 16 x 10 wide screen as well as 4 x 3 standard viewing at a variety of resolutions.
Third Party Camera Support:	List available at vicon-security.com/cam-support .
Main Window Screen:	A multi-channel display area containing up to 16 connected cameras and microphones and all necessary controls to operate and set up the system.
Graphical Map:	Supports realistic camera location (a Workstation with a dual output VGA will allow showing the map on a dedicated monitor while viewing video on the other).
Site List:	A physical list of all known network Site areas and connected cameras and microphones.
Play From Time:	Call up images from any database on the network from Main Screen.
Navigator Window:	A graphical display of recorded video. It contains a set of function buttons used to access the video on-screen.
Network and Sites Configuration:	Allows administrator to set up all IP address information and a system Nucleus and Backup Nucleus.
Macro Capabilities:	Macros can be defined for recorded or displayed/played cameras, microphones and related devices (sensors).
Device Configuration:	Devices can be configured for system recognition and operation.
Authorization Rights Setup:	Group rights can be configured by specific site and user. Rights provide authority to perform limited or all system functions.
Log Reporting:	Continuously running activity log.

Alarm Capabilities:	Alarms can be programmed to annunciate under special conditions.
Storage Database Utilities:	Allows setup and usage of detected hard disks locally, including high-capacity iSCSI network storage devices.
Authentication:	ViconNet uses a 128-bit MD5 type video authentication algorithm to verify exported video data integrity.
Central Failure Notification (CFN):	Fault reporting system that provides application and hardware failure information to all DVRs and NVRs connected to the system.
Events Management System (EVM):	Enables ViconNet to interface with an external system's database, for example, an access control, point-of-purchase, intrusion monitoring or license plate recognition (LPR) system.
Museum Search:	Enables an operator to define a region within a specific Vicon camera's field-of-view, for example, a door, for indexing. This accelerates searching for a specific incident.
Recording Verification System:	Ensures continuous recording by notifying users of any recording errors, both locally and over the network.
Archive Wizard and Player:	Creates authenticated archives and saves to any location or removable media.. The video clip is playable using the embedded ViconNet player.
Video Vault:	Allows any event that was tagged as an alarm (VMD, video loss, dry contact or from the Events Management system) to be saved to a separate database, where it cannot be overwritten by the system.
Authorization Copy and Duplicate:	Provides the ability to send authorization settings to other Workstations so they do not have to be programmed separately.
Enhanced Logs:	Logs that are exported from ViconNet also contain Windows and setup logs, providing more troubleshooting information when diagnosing system problems.
Camera Licensing:	No fees for Vicon cameras. No complex IP camera registration process.

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Specifications subject to change without notice.







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Typical ViconNet System

In a typical configuration, ViconNet manages encoded analog video stream inputs from hybrid DVRs and standalone encoders and IP video streams from IP devices. All devices are connected to the network via a LAN, WAN or the Internet. With this configuration, ViconNet can direct video to any workstation, NVR or DVR on the network or a laptop or PC connected to the Internet running the ViconNet software or the web browser version of ViconNet. In addition, a Virtual Matrix Display Controller can be added to the system to provide multiple display options and the ability to control video walls.

ViconNet is available as a complete VMS system loaded on factory-certified hardware optimized for seamless operation and integration with access control and other security management systems. This includes a full complement of NVRs, workstations, DVRs, RAID storage devices, cameras and edge devices. Listed below are some key system components. Refer to www.vicon-security.com for more information.

	Description	Model Number
	Collector Series Hybrid Digital Video Recorders preloaded with ViconNet. Collector Strike and Force models offer frame rates from 60 to 480 fps, 16 analog inputs, 8 IP camera support, a variety of storage options including internal or external RAID and MPEG-4, MJPEG or H.264 compression.	KFX-XXXXV6 KSX-XXXXV6
	NVRs and Workstations preloaded with ViconNet. NVR models in both tower and rack versions offer a variety of storage options including internal or external RAID and MPEG-4, MJPEG or H.264 compression. Workstations provide the same capability but no recording ability.	VN-NVR-XXXXV6 VN-WS-PCV6
	Virtual Matrix Display Controller. The VMDC provides a scalable matrix control solution for small and large installations. Available in tower and rack configurations, The VMDC is comprised of both a matrix command/control center software interface and a hardware decoding component that enables the remote network video streams to be displayed on multiple monitors in multiple locations.	VMDC-XX series
	Network Control Keypad. Used to control ViconNet digital video management systems, including Virtual Matrix Controller (VMC) over an IP network or serial connection.	V1500X-SCCS-1
	External Storage Options. Vicon offers a variety of external storage options using SAN and other technologies.	VN-SAN-XX-XXXX
	ViconNet Web Server. Allows authorized security managers and operators to select and control video displayed from a browser-based interface. Available in tower or rack (R) configuration.	VN-WEB-SYSTEM or VN-WEB-SYSTEM-R

Software and Licensing

Network Video Recording Software and Licenses	Model Number
ViconNet 6 NVR software single server license.	VN-NVR-SWV6
ViconNet Multi-Pack; 10 user license pack of VN-NVR V6 software.	VN-NVRV6-10
ViconNet NVR single server license; 30-day evaluation version.	VN-NVR-30V6
Workstation Remote Operator Software	Model Number
ViconNet Remote Operator Workstation software. Single site license.	VN-WS-SWV6
ViconNet Multi-Pack; 10 user license pack of VN-WS V6 software.	VN-WSV6-10
ViconNet 6 Basic Remote Operator software site license.	VN-VIEWERV6-16
Web Server Software	Model Number
ViconNet Web Server single server software license.	VN-WEB-SW
Nucleus Software	Model Number
ViconNet 6 Nucleus/Web server single server software license.	VN-NUC-SWV6
Nucleus Multi-Pack; 10 user license pack of VN-NUC-SWV6	VN-NUC-SWV6-10
Events Management Software	Model Number
License for each ViconNet device to use the Events Management System. One license.	VN-EVM-LIC

Software Upgrades from Prior ViconNet Versions

A Software Upgrade is a one-time purchase and does not entitle the user to additional product upgrades. Refer to the ViconNet Version 6 Upgrade Guidelines Product Fact Sheet PF-219 for more information.

Description	Model Number
ViconNet V6 NVR Software Single Server License Upgrade.	VN-NVR-SWV6-UPGRADE
ViconNet V6 Kollector DVR Software Single DVR License Upgrade.	VN-DVR-SWV6-UPGRADE
ViconNet V6 Workstation Software Single Workstation License Upgrade.	VN-WS-SWV6-UPGRADE
VMDC Single Workstation Software Upgrade	VMDC-SW-UPGRADE

Software Maintenance Agreement

A Software Maintenance Agreement entitles the user free access to product upgrades. The contract runs one or more years and may be purchased along with the product or if a Product Upgrade is purchased. Refer to the ViconNet Version 6 Upgrade Guidelines Product Fact Sheet PF-219 for more information.

Description	Model Number
ViconNet V6 NVR Software Annual Maintenance Agreement.	VN-NVR-SWV6-MAINT
ViconNet V6 Kollector Software Annual Maintenance Agreement.	VN-DVR-SWV6-MAINT
ViconNet V6 Workstation Software Annual Maintenance Agreement.	VN-WS-SWV6-MAINT
ViconNet V6 Nucleus Software Annual Maintenance Agreement	VN-NUC-SWV6-MAINT
VMDC Single Workstation Annual Maintenance Agreement	VMDC-SW-MAINT